

# NEXUS PS 536

General Purpose Polystyrene

Nexus Resin Group, LLC.

Message:

High Heat Flow Crystal Polystyrene in Injection Molding  
Nexus 536 is a high melt flow; high heat crystal polystyrene designed for fast cycle injection molding. This polymer is also designed for high output, direct injection profile extrusion for foam applications. Applications are for foam board and wood replacement.

General Information	
Features	Crystal
	Fast Molding Cycle
	High Flow
	High Heat Resistance
Uses	Foam
	Structural Foam
Agency Ratings	FDA Unspecified Rating
	UL Unspecified Rating
Processing Method	Foam Processing
	Injection Molding
	Profile Extrusion

Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm <sup>3</sup>	
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	8.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955
Water Absorption (24 hr)	< 0.10	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2960	MPa	ASTM D638
Tensile Strength (Yield)	44.8	MPa	ASTM D638
Flexural Modulus	2960	MPa	ASTM D790
Flexural Strength	80.7	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Annealed)	96.1	°C	ASTM D648
Vicat Softening Temperature	104	°C	ASTM D1525

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## Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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